

**Safety Data Sheet**

according to UK REACH Regulation

**cc 506**

Revision date: 15.06.2021

Product code: gwkcc506

Page 1 of 8

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

cc 506

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Water treatment chemicals

**Uses advised against**

No information available.

**1.3. Details of the supplier of the safety data sheet**

Company name:	gwk	
	Gesellschaft Wärme und Kältetechnik mbH	
Street:	Scherl 10	
Place:	D-58540 Meinerzhagen	
Telephone:	+49 2354 7060 - 0	Telefax: +49 2354 7060 - 156
e-mail (Contact person):	info@gwk.com	
Internet:	www.gwk.com	
Responsible Department:	Wassertechnik	
<b>1.4. Emergency telephone number:</b>	Giftnotruf Berlin +49 (0) 30 30686700	

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes serious eye irritation.

**2.2. Label elements****GB CLP Regulation****Signal word:** Warning**Pictograms:****Hazard statements**

H319 Causes serious eye irritation.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

**Additional advice on labelling**

The product is classified and labelled according to EC directives or corresponding national laws.

**2.3. Other hazards**

No information available.

## Safety Data Sheet

according to UK REACH Regulation

cc 506

Revision date: 15.06.2021

Product code: gwkcc506

Page 2 of 8

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Formulation of preparations (mixtures)

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
5949-29-1	citric acid			20 - < 25 %
	201-069-1			
	Eye Irrit. 2; H319			

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
5949-29-1	201-069-1	citric acid	20 - < 25 %
	oral: LD50 = 3000 mg/kg		

**Further Information**

No information available.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, saturated clothing immediately.

**After inhalation**

Move victim to fresh air. Instruct person to keep calm and warm.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.

**After contact with eyes**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps.

**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Water. Foam. ABC powder. Carbon dioxide (CO<sub>2</sub>).**Unsuitable extinguishing media**

High power water jet.

**Safety Data Sheet**

according to UK REACH Regulation

**cc 506**

Revision date: 15.06.2021

Product code: gwkcc506

Page 3 of 8

**5.2. Special hazards arising from the substance or mixture**

In case of fire may be liberated: Nitrogen oxides (NOx). Hydrogen chloride (HCl). Carbon monoxide

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General measures**

Wear personal protection equipment.

**For non-emergency personnel**

No information available.

**For emergency responders**

No information available.

**6.2. Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers).

**6.3. Methods and material for containment and cleaning up****For containment**

No information available.

**For cleaning up**

No information available.

**Other information**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

**6.4. Reference to other sections**

Take up mechanically, placing in appropriate containers for disposal.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Advice on general occupational hygiene**

Do not eat, drink, smoke or sneeze at the workplace.

**Further information on handling**

No special handling instructions are necessary.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep/Store only in original container.

**Hints on joint storage**

Keep away from food, drink and animal feedingstuffs.

**Further information on storage conditions**

Conditions to avoid: frost.

**7.3. Specific end use(s)**

No information available.

## Safety Data Sheet

according to UK REACH Regulation

cc 506

Revision date: 15.06.2021

Product code: gwkcc506

Page 4 of 8

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

No information available.

**8.2. Exposure controls****Appropriate engineering controls**

No information available.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Tightly sealed safety glasses.

**Hand protection**

Chemical-resistant protective gloves (EN 374), Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time to EN 374), eg. B. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm), etc. .. Because of the large variety of types, the instructions for use of the manufacturer must be observed.

**Skin protection**

No information available.

**Respiratory protection**

No information available.

**Environmental exposure controls**

No information available.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	yellow
Odour:	characteristic

**Test method****Changes in the physical state**

Melting point/freezing point:	- 1 °C	DIN 51532
Boiling point or initial boiling point and boiling range:	> 100 °C	EN ISO 3405
pH-Value (at 20 °C):	ca. 2	DIN 19261
Density (at 25 °C):	ca. 1,1 g/cm <sup>3</sup>	DIN 53479

**9.2. Other information****Other safety characteristics**

No information available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

No information available.

**10.3. Possibility of hazardous reactions**

Oxidizing agents. Alkali metals. Acid. Reducing agent. Alkalis (alkalis).

## Safety Data Sheet

according to UK REACH Regulation

cc 506

Revision date: 15.06.2021

Product code: gwkcc506

Page 5 of 8

**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials**

Oxidizing agents. Alkali metals. Acid. Reducing agent. Alkalis (alkalis).

**10.6. Hazardous decomposition products**

No information available.

**Further information**

No information available.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Toxicokinetics, metabolism and distribution**

No information available.

**Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
5949-29-1	citric acid				
	oral	LD50 mg/kg	3000	Ratte	

**Irritation and corrosivity**

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Specific effects in experiment on an animal**

No information available.

**Additional information on tests**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

**Practical experience**

No information available.

**11.2. Information on other hazards****Endocrine disrupting properties**

EN ISO 3405

**Other information**

No information available.

**Further information**

No information available.

## Safety Data Sheet

according to UK REACH Regulation

cc 506

Revision date: 15.06.2021

Product code: gwkcc506

Page 6 of 8

**SECTION 12: Ecological information****12.1. Toxicity**

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
5949-29-1	citric acid					
	Acute fish toxicity	LC50 440 - 760 mg/l	96 h	Leuciscus idus		
	Acute crustacea toxicity	EC50 120 mg/l	48 h	Daphnia magna	(72 h)	

**12.2. Persistence and degradability**

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

**12.3. Bioaccumulative potential**

Does not accumulate in organisms.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
5949-29-1	citric acid	-

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Endocrine disrupting properties**

EN ISO 3405

**12.7. Other adverse effects**

No information available.

**Further information**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains.

Dispose of contents/container to an appropriate recycling or disposal facility.

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a hazardous waste incinerator facility under observation of official regulations.

DE: Waste key product: Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

**Contaminated packaging**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

## Safety Data Sheet

according to UK REACH Regulation

cc 506

Revision date: 15.06.2021

Product code: gwkcc506

Page 7 of 8

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)****14.1. UN number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)****14.1. UN number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number:**

No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:**

No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):**

No dangerous good in sense of this transport regulation.

**14.4. Packing group:**

No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS:

No

**Other applicable information****SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

Information according to 2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

**Additional information**

No information available.

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

1 - slightly hazardous to water

Biocide registry number:

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 3,15.

**Relevant H and EUH statements (number and full text)**

H319

Causes serious eye irritation.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of

## Safety Data Sheet

according to UK REACH Regulation

### cc 506

Revision date: 15.06.2021

Product code: gwkcc506

Page 8 of 8

product properties and establishes no contract legal rights.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*